

## Contributing through advances in science and healthcare

### Shionogi-affiliated foundations that promote science and healthcare

Established in 1915, the Research Foundation Itsuu Laboratory conducts a broad range of pharmaceutical research, focusing mainly on advanced synthetic organic chemistry research themes such as the total synthesis of natural alkaloids. The foundation also supports young researchers. Similarly, the Hoansha Foundation, established in 1954, has helped advance pharmaceutical research by providing grants for research and studies in the field of pharmaceutical science. We also established the Cell Science Research Foundation in 1988, recognizing the potential of cell science at a time when the field was still in its infancy. By providing grants for research and support for researchers, the foundation has played a key role in pushing forward developments in the field of cell science. Through these foundations, Shionogi has made a significant contribution to advances in science and healthcare in Japan over many years.

### Shionogi joins the Milner Therapeutics Institute and Consortium

The Milner Therapeutics Institute and Consortium (MTC), based at the University of Cambridge in the UK, was established in 2015 to focus on drug discovery research. The consortium connects three academic centers of excellence in medical and biological research (Cambridge University, Babraham Institute, Sanger Institute) with four pharmaceutical companies (Shionogi, Astex, AstraZeneca, GSK) to share their respective expertise and unique resources in collaborative research projects that accelerate the discovery of better medicines. Shionogi is the only consortium member with its head office outside the UK.

In addition to specific collaborative projects, MTC aims to create and enhance innovative drug discovery technologies and actively use them to plan and implement pre-competitive drug research. One part of that approach is the Grand Challenge system launched in 2016. Under this system, academic scientists bring their advanced drug discovery ideas to MTC, which then plans and supports their further development.

By participating in this innovative consortium, we aim to realize the main goal of our Company Policy worldwide – to strive constantly to supply the best possible medicine to protect the health and wellbeing of the patients we serve.

### Contributing to the GHIT Fund

(Global Health Innovative Technology Fund)

Antibiotics have saved millions of people from the threat of dangerous pathogens. However, we are now seeing rapid growth in microbes and infections such as tuberculosis and malaria that have acquired resistance to many modern drug treatments. At the same time, the development of effective new antibiotic treatments that can counter drug-resistant bacteria has stalled. Neglected tropical diseases (NTDs) also remain a threat to the lives of many people in developing countries amid limited progress in developing effective antibiotics. One reason for this lack of progress is that many pharmaceutical companies have withdrawn from infectious disease research due to poor prospects for substantial profits.

Against this backdrop, many funds are being set up worldwide to advance research into new antibiotics. In Japan, the not-for-profit GHIT Fund has been established to promote collaboration with overseas partners and provide research funding. Shionogi has been a contributor to the GHIT Fund since it was founded and has received funding to advance the discovery of new drugs that can treat multidrug-resistant tuberculosis. Under the auspices of the fund, Shionogi is also actively working to eliminate the threat of infectious diseases in general, such as taking part in a program to search for new antibiotics.

We aim to step up our role in the global fight against multidrug-resistant bacteria through international collaboration, illustrated by our commitment to a joint declaration calling for greater cooperation at the World Economic Forum in Davos in January 2016.

### Sponsor of Music Fair

We have been the sole sponsor of the TV music program Music Fair since it first aired in Japan in August 1964.

Our goal has been to give as many people as possible the opportunity to relax with music through a TV program that features the best artists performing songs in a great atmosphere with the highest quality sound, lighting and sets.

